

CLAIMS

1. A device for detecting electrical potentials on a patient, with an electrode device which can be applied in the forehead region of the patient, wherein the electrode device is arranged on a forehead support element which co-operates with a breathing mask device in such a way that the application position of the electrode device is established in conjunction with the application position of the breathing mask device.

2. A device as set forth in claim 1 characterized in that the forehead support element is coupled to the breathing mask device.

3. A device as set forth in claim 1 ~~or claim 2~~ characterized in that the forehead support element is formed from an elastomer material.

4. A device as set forth in ~~one of claims 1 through 3~~ ^{claim 1} characterized in that the forehead support element is formed in one piece with a mask base member of the breathing mask device.

5. A device as set forth in ~~one of claims 1 through 4~~ ^{claim 1} characterized in that there is provided a stiffening element which stiffeningly couples together the forehead support element and the breathing mask device.

6. A device as set forth in ~~one of claims 1 through 5~~ ^{claim 1} characterized in that the electrode device has at least two electrode elements.

7. A device as set forth in ~~one of claims 1 through 6~~ ^{claim 1} characterized in that the electrode device has three electrode elements.

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claim 1

claim 1

claim 1

12. A breathing mask arrangement for feeding a respiration gas to a patient under an increased pressure, comprising:

- claim (

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claim 1

14. A device as set forth in ~~one of claims 1 through 13~~ characterized in that the mask member is formed from an elastomer material.

claim 1

15. A device as set forth in ~~one of claims 1 through 14~~ characterized in that the forehead support element and the mask member are integral.

claim 1

16. A device as set forth in ~~one of claims 1 through 15~~ characterized in that the mask member and the forehead support element are adapted to the individual contour of the face of the patient by virtue of stiffening with a stiffening device which extends into the forehead support element.

17. A device for detecting electrical potentials in the forehead region of a patient, in particular for determining sleep stages, comprising:

an electrode device, a measuring circuit arrangement for producing measurement data in accordance with the electrical potentials detected by the electrode device, characterized in that the measuring circuit arrangement is integrated into a forehead support element, and there is provided a signal transmission device for cord-less transmission of the measurement data produced by the measuring circuit arrangement.

claim 17

18. A device as set forth in ~~one of claims 1 through 17~~ characterized in that the measuring circuit arrangement has a data compression device for forwarding a compressed data set to the signal transmission device.

19. A device for detecting electrical potentials in the forehead region of a patient, in particular for determining sleep stages, comprising:

an electrode device, a measuring circuit arrangement for producing measurement data in accordance with the electrical potentials detected by the electrode device, characterized in that the measuring circuit arrangement is integrated into a forehead support element, and there is provided a measurement data recording device for recording the measurement data produced by the measuring circuit arrangement.

claim 1a

20. A device as set forth in ~~one of claims 1 through 19~~ characterized in that the measurement data recording device is formed by an approximately postage stamp-size memory card element which is releasably fitted.